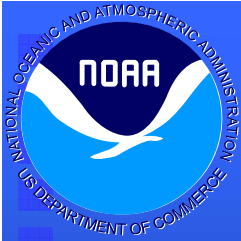




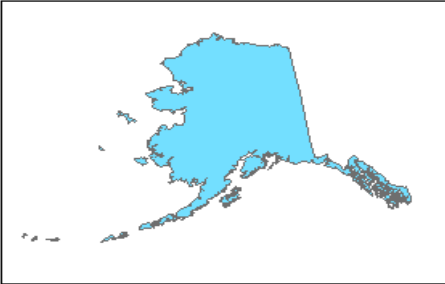
# **The National Weather Service is committed to Climate Services thru partnership with State Climatologists and Regional Climate Centers**

Bill Proenza, Director  
NWS Southern Region  
**AASC Conference**  
**Rapid City, SD**  
June 22, 2006



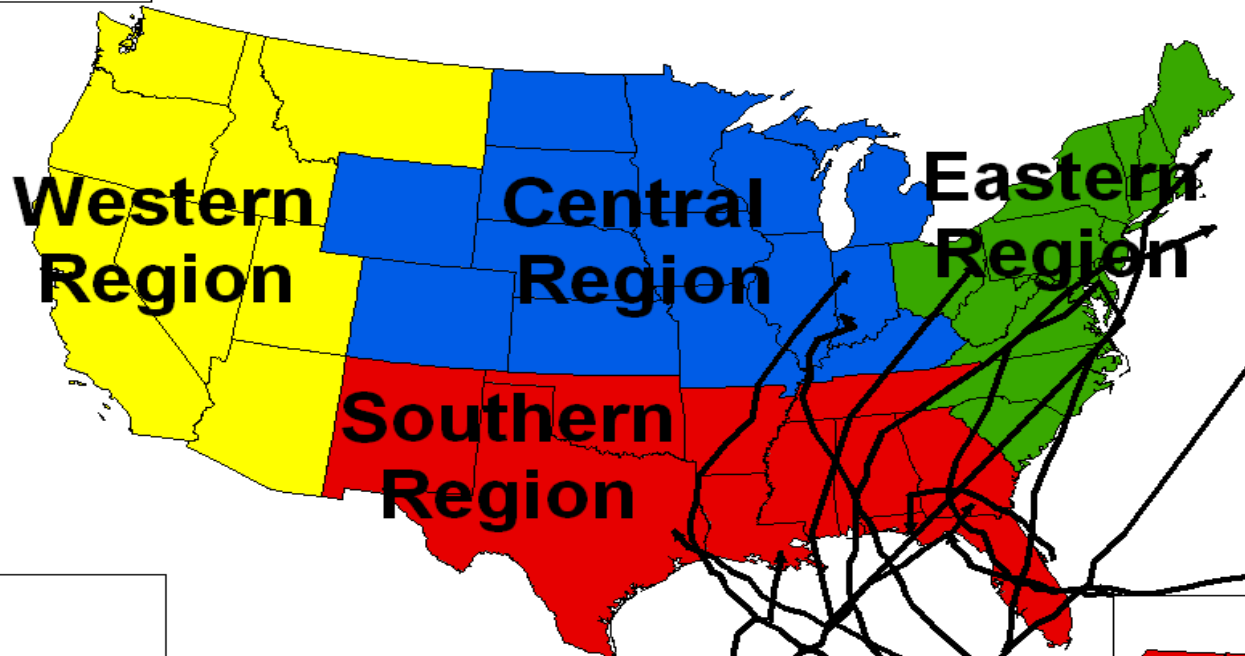
# NWS has 4 major contiguous Regions and 2 State Regions

NWS Southern Region



**Alaska Region**

(based on areas with similar meteorological challenges)

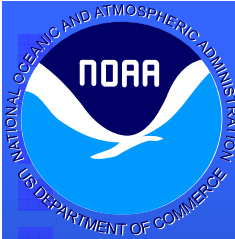


*Hawaii and Guam*

**Pacific Region**



*Puerto Rico and Virgin Islands*

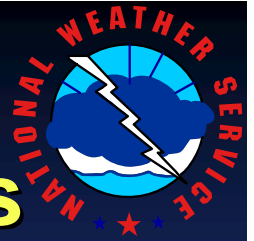
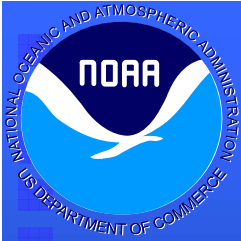


# NWS Resource Commitment to Climate Services



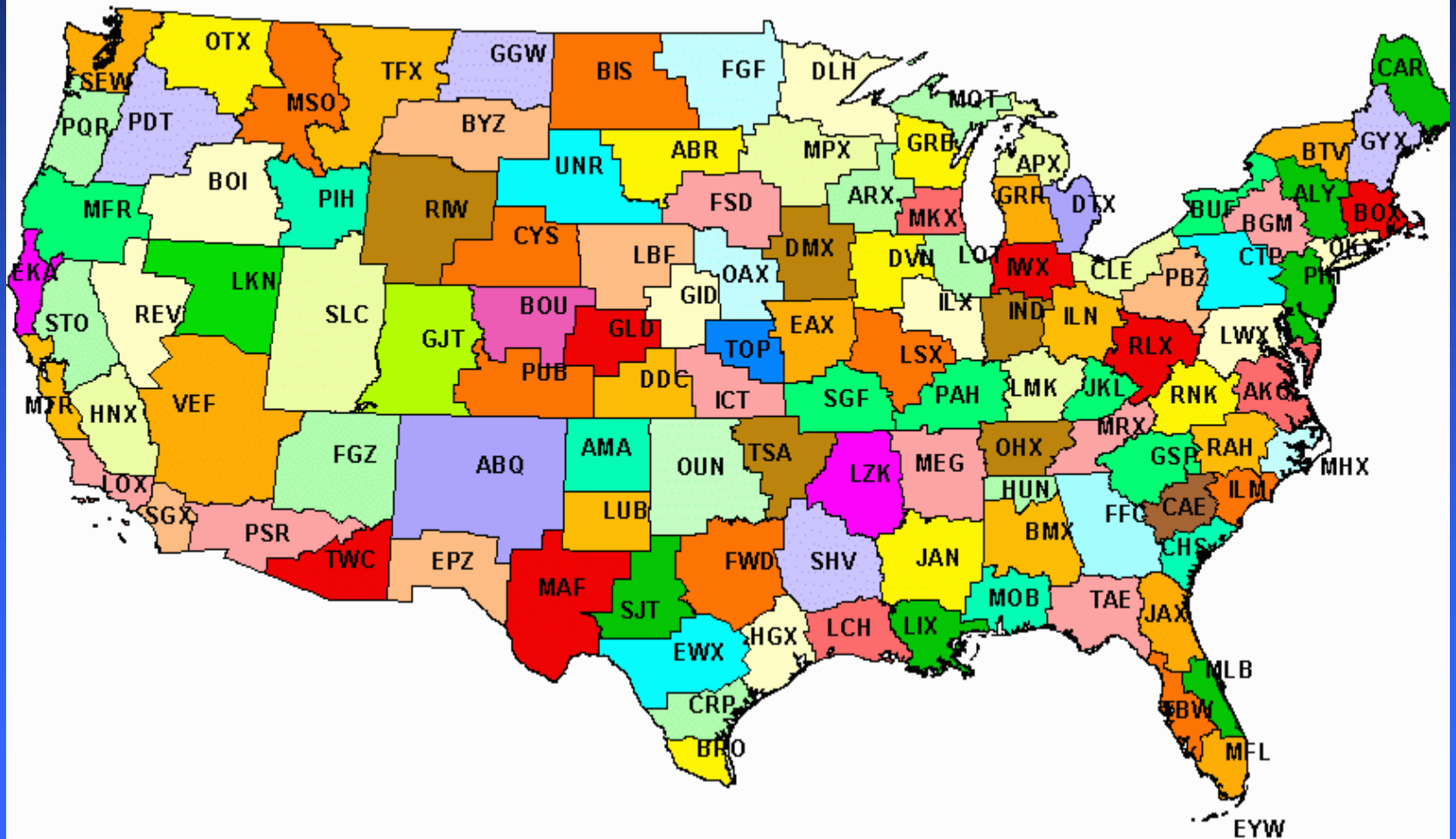
NWS Southern Region

- Each Region and WFO has a climate service focal point meteorologist to work with you, the State Climatologists and Regional Climate Centers.  
**Please get to know your WFOs well !**
- In addition, each WFO has a dedicated Observations/Data Program Leader to support quality data and local CO-OP program
- NWSH Climate Program (Livezy & staff) and CPC
- Goal – In partnership with the State Climatologists, to provide effective climate services for decision makers, researchers, media, and the public.

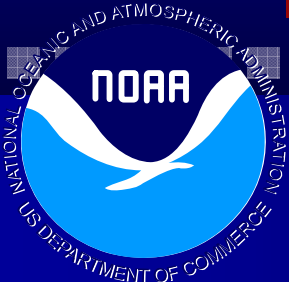
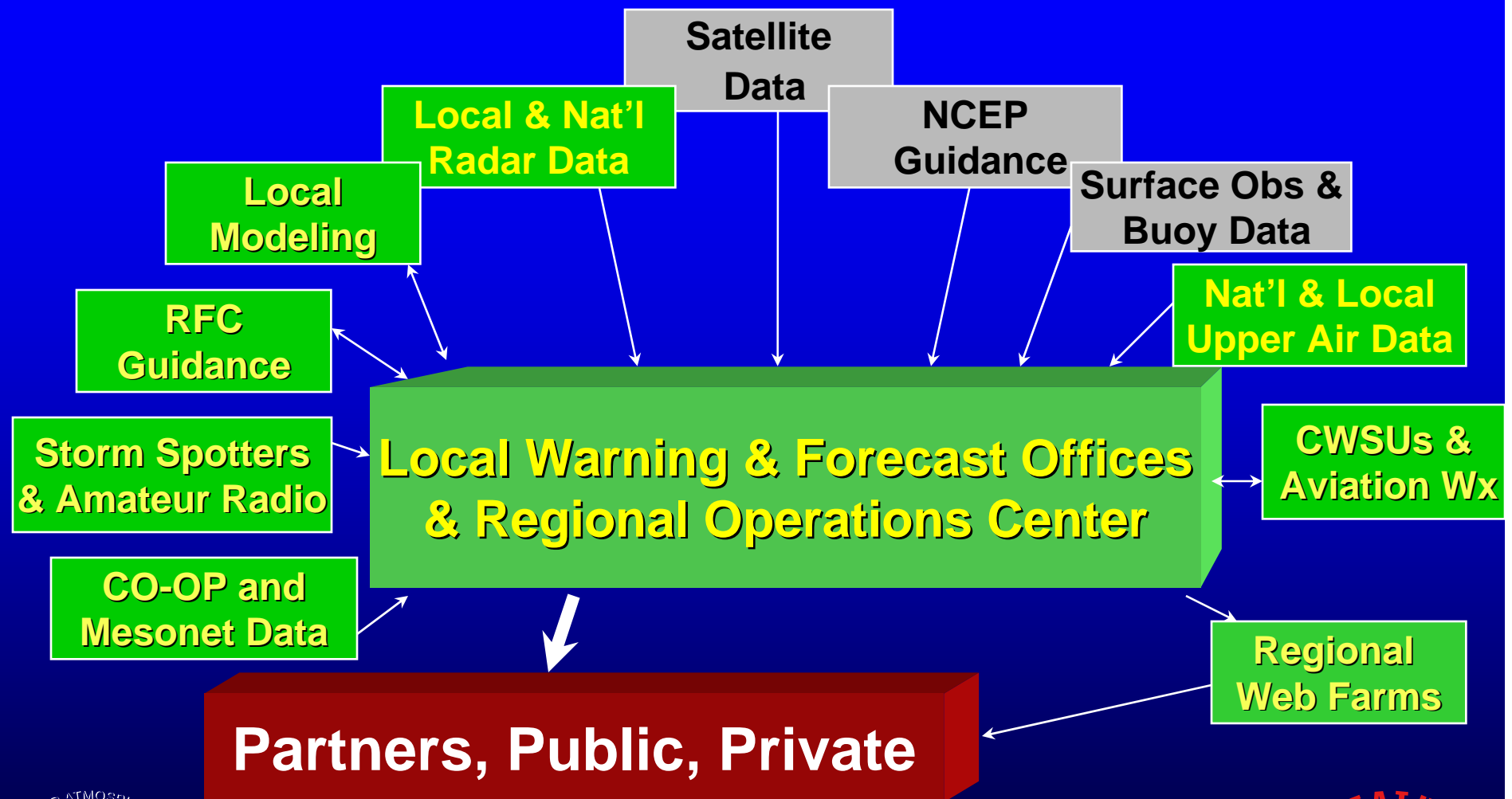


# 122 NWS Warning Forecast Offices

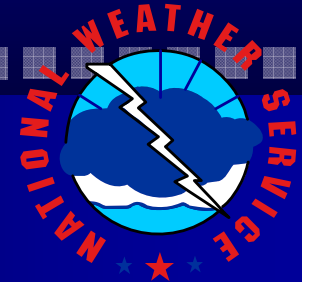
NWS Southern Region

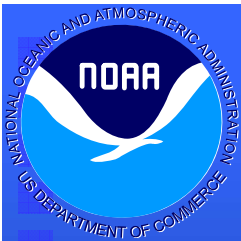


# WFOs = NWS Info + local data in realtime



NWS SOUTHERN REGION  
[www.srh.weather.gov](http://www.srh.weather.gov)

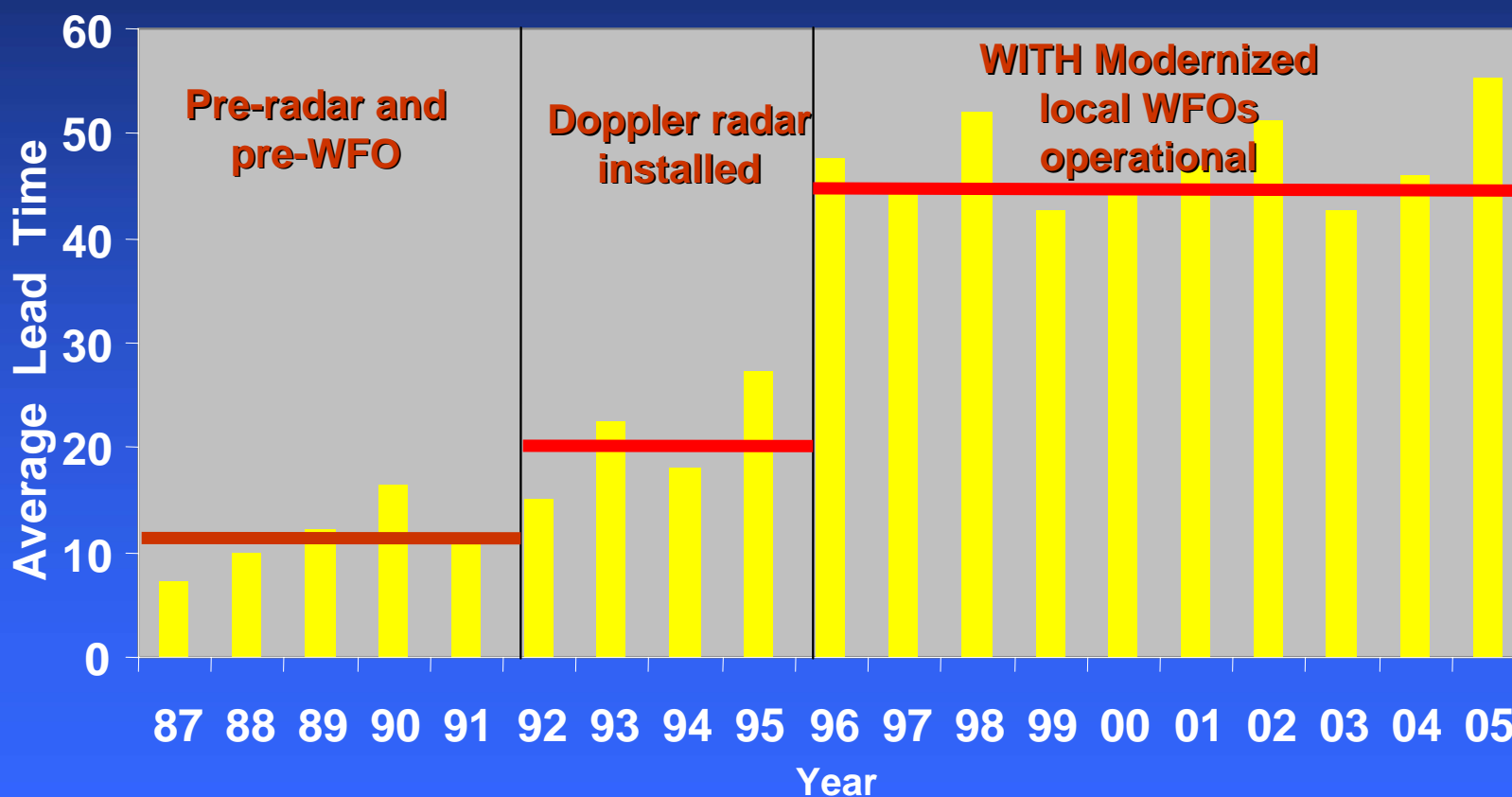


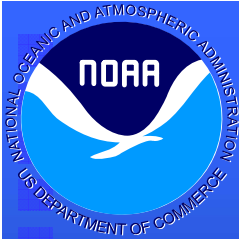


# Local WFOs Save Lives

By increasing Flash Flood Warning Lead Time

NWS Southern Region

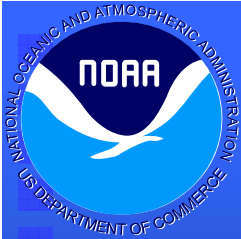




# Your National Weather Service WFOs



- **...are your 24x7 “Local” weather offices** – providing climate information, powerful & timely weather service & statements, forecasts & warnings.
- **...are your vital network of dependable radars** – with radar and velocity loops showing fine-scale storm movements and precipitation rates and wind speeds etc. *ALL, with new GIS capability and other vital features on the internet.*
- **...are the key to life saving community preparedness-** partnering with local, state & federal emergency management and the media.



## Local WFO Climate Services

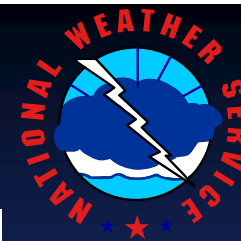
- National Implementation of a standardized climate web page to facilitate user access to data.
- Emphasis on tools and timely products enabling customers and decision makers to pull needed climate information.





NWS Southern Region

# NWS SR Web Farm



[www.srh.weather.gov](http://www.srh.weather.gov)

[www.srh.noaa.gov](http://www.srh.noaa.gov)

- Your one-stop reliable 24x7 weather source.
  - ◆ Easy navigation
  - ◆ Data given in the manner you our partners need it.
  - ◆ Great Dissemination
- Most used “dynamically updated” Government website !



# Standardized Data Pages



NWS Southern Region

Local weather  
forecast by "City, St"  
or zip code

City, St

Welcome from the  
Director

Southern Region  
Organization

Weather Hazards  
Nationwide

Doppler Radars  
Nationwide

Weather Links

Precip. Estimate  
Graphics

Building Leaders for a  
Solid Tomorrow-Blast

Partners



National Weather  
Service Homepages

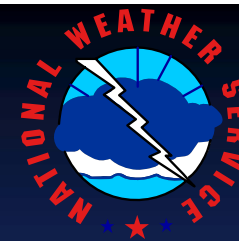
River Forecast  
Center Homepages

Center Weather Service  
Units Homepages




Additional SR pages: [Spaceflight Meteorology Group](#) | [Riverwatch](#) | [NWS/FAA Academy](#)

National Weather Service • Since 1870



# Standardized Data Pages

NWS Southern Region



National Weather Service Forecast Office  
**Fort Worth, TX**

[SR News](#) [SRH Home](#) [Organization](#) [Search](#)

**Local weather forecast by "City, St" or zip code**

**Current Hazards**  
[North Texas](#)  
[Graphical Warnings](#)  
[National](#)

**Current Conditions**  
[Observations](#)  
[Satellite Images](#)  
[Rivers & Lakes AHPS](#)  
[Precip Estimate](#)  
[Hydrology](#)

**Radar Imagery**  
[DFW](#)  
[Central Texas](#)  
[Nationwide](#)

**Weather Forecasts**  
[North Texas](#)  
[Aviation](#)  
[Fire Weather](#)


**Climate**  
**Local**

**Top News of the Day**  
[National Lightning Safety Week - June 18-24](#)  
[Heat Safety Tips and Information](#)  
[Updated North Texas Drought Information!](#)

Products Checked: 6:21 pm cdt 06-20-06  
6:05 PM CDT Short Term 4cast   
No Refresh: Refresh Browser For Latest  
[\\* Enhanced Webpage \\*](#)

[Click on map for Point Forecast \(Point forecast?\)](#) [Submit Storm Reports](#)

Click on the map below for the latest forecast.



Last map update: Tue, Jun. 20, 2006 at 6:20:12 pm CDT

en español

Read watches, warnings & advisories.

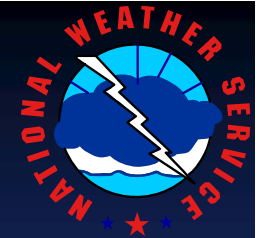
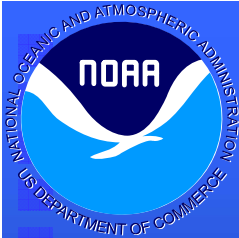
Flash Flood Watch ☐

Short Term Forecast ☐

Hazardous Weather Outlook ☐

National Weather Service





# Standardized Data Pages

NWS Southern Region

**National Weather Service Forecast Office**  
**Fort Worth, TX**

Home News Organization Search for:

Local forecast by "City, St"  
City, St Go

Current Hazards  
North Texas  
Graphical Warnings  
National  
Current Conditions  
Observations  
Satellite Images  
Rivers & Lakes  
AHPS  
Hydrology  
Radar Imagery  
DFW Radar  
Central Texas Radar  
Nationwide  
Weather Forecasts  
North Texas  
Aviation  
Fire Weather  
Climate  
North Texas

Observed Weather Climate Locations Climate Prediction Climate Resources Local Data/Records Astronomical NOWData

**Observed Weather Reports**

1. Product »  
☒ Daily Climate Report (CLI)  
☐ Preliminary Climatology Data (CF6)  
☐ Record Event Report (RER)  
☐ Monthly Weather Summary (CLM)  
☐ Regional Summary (RTP)  
☐ State Summary (Temp/Precip)

2. Location »  
Dallas/Ft. Worth Intl Apt  
Waco Regional Airport

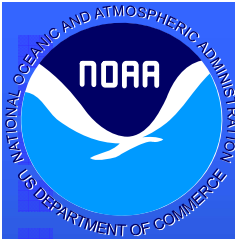
3. Timeframe »  
☒ Most Recent  
☐ Archived Data:  
June 18th, 2006  
June 17th, 2006  
June 16th, 2006  
June 15th, 2006  
June 14th, 2006

4. View »  
Go

Storm Event Database (SPC)  
Storm Data (HCDC)


**Product Description:**  
DAILY CLIMATE REPORT - issued daily:  
Detailed daily weather statistics (usually for yesterday), including temperature, precipitation, degree days, wind, humidity, sunrise/sunset, and record temperature data for the following day. Precipitation data includes both calendar year and water year totals, percent of normal values, and comparisons to normal. This product is available for up to 2 months.

All 122 WFOs have this same standard Climate Page



# Local Customized Climate Pages



**National Weather Service Forecast Office**  
**Fort Worth, TX**

Home      News      Organization

**Local forecast by**  
"City, St" or zip code

**Current Hazards**  
North Texas  
Graphical Warnings  
Outlooks

**Current Conditions**  
Observations  
Satellite images  
Rivers & Lake AHPs

**Radar Imagery**  
DFW  
Central Texas  
Nationwide  
Experimental Ridge

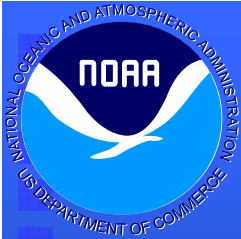
**N. Texas Forecasts**  
Point-n-Click  
County Averaged  
Digital (AFM)  
Graphical AFM  
Forecast Images  
Aviation  
Fire Weather  
Fcst Type Guide

## North Central Texas Climatology

(Jump to: State of Texas Climatology - National Climatology)

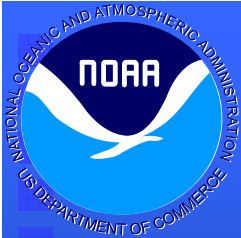
- **F6 Data** (Daily High, Low and Precipitation Data)
- **Dallas/Fort Worth Climatology**
- **Waco Climatology**
- **Astronomical Data** for North Central Texas.  
Dates and times of the beginnings of the seasons.  
Easter sunrise times.
- **Monthly Precipitation Maps**
- **Yearly Rainfall (2000-2005) for Coop Sites**
- **North Texas Climate Summary for selected locations**  
(in addition to DFW and Waco)  
Annual Rainfall for North Central Texas. Average First and Last Freezes.  
Temperature Extremes. Average and Extreme Number of 100°F Days.
- **Wind Data**  
(statewide data from TCEQ)  
Wind roses for Dallas/Fort Worth, Waco, and Stephenville (as well as other locations across the state of Texas)

**But data still available to fulfill local needs.**



# Local WFO Climate Services

- **Local NWS Offices** serve federal/state/local agencies and commissions in partnership with state climatologists, Regional Climate Centers, academia, and the public/private sector.
- Products designed to emphasize **local and regional** impacts (i.e. agriculture, fire, water use, hydrology, etc.).
- Information and products issued both in text format and graphics.



# 2005/2006 Drought and Fires: High Impact on Southern US

NWS Southern Region

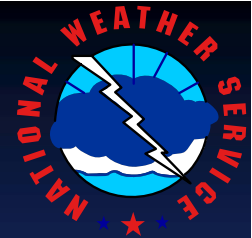
	Fires	Acres Burned	Houses Destroyed
<b>Texas</b>	1873	1,343,914	345 *19 fatalities
<b>Oklahoma</b>	1629	558,383	238
<b>Florida</b>	3287	178,913	42
<b>New Mexico</b>	700	400,000	?
<b>Arkansas</b>	2019	36,670	34

For FL and TX, these are the highest values since the La Nina of 1998.

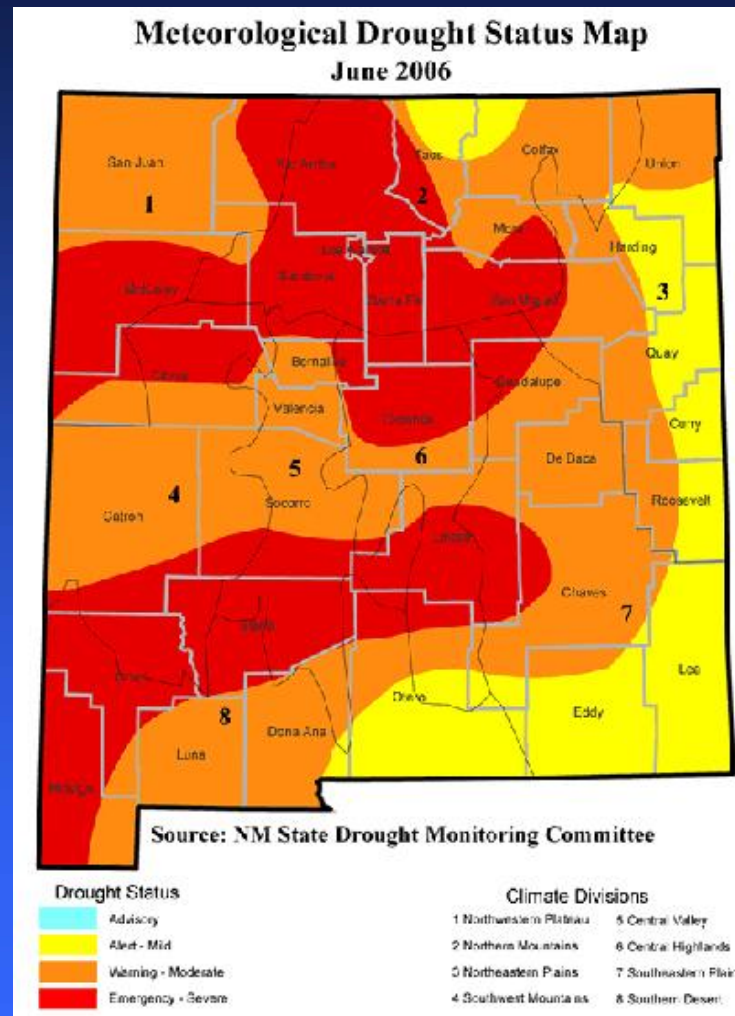




NWS Southern Region



# Local WFO Climate Services



Many WFOs active in statewide drought monitoring committees.






# Climate Services from your National Weather Service



NWS Southern Region



## National Weather Service Forecast Office Melbourne, FL

[Home](#) [News](#) [Organization](#) [Search](#)

**Local weather forecast by**  
"City, St" or zip code

**Current Hazards**  
East Central FL  
National

**Current Conditions**  
Observations  
Satellite Images  
Rivers & Lakes AHPS  
Precip Estimate  
Hydrology

**Radar Imagery**  
Melbourne  
Nationwide

**Forecasts**  
Text Products  
Graphical  
Aviation  
Marine  
Fire Weather  
Local Meso Model

**Climate**  
Local  
National

**SELECT:**

- Seasonal Outlook
- El Nino Discussion
- Storminess
- Rainfall
- Temperature
- Education & Research
- Seasonal Summaries
- Disclaimer
- Feedback

### 2005-2006 Experimental Dry Season Forecast for Florida

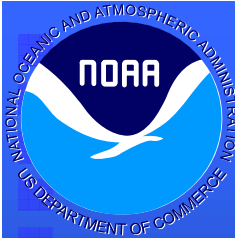
(Valid for period November 1st 2005 through April 30th 2006)

These pages contain experimental products that will be posted for evaluation through April 30th, 2006. During this period, we encourage your comments and suggestions for improvements using the survey available [here](#).

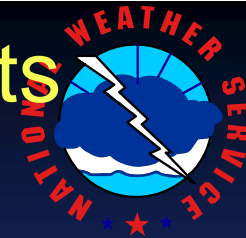
#### 2005-2006 Experimental Florida Dry Season Forecast Updated JAN 2, 2006

EL Nino	Storminess	Rainfall	
	0%	15%	Well Above Normal
+1.0	8%	15%	Above Normal
+0.50	18%	31%	Normal
0	56%	31%	Below Normal
-0.50	18%	8%	Well Below Normal
-1.0			

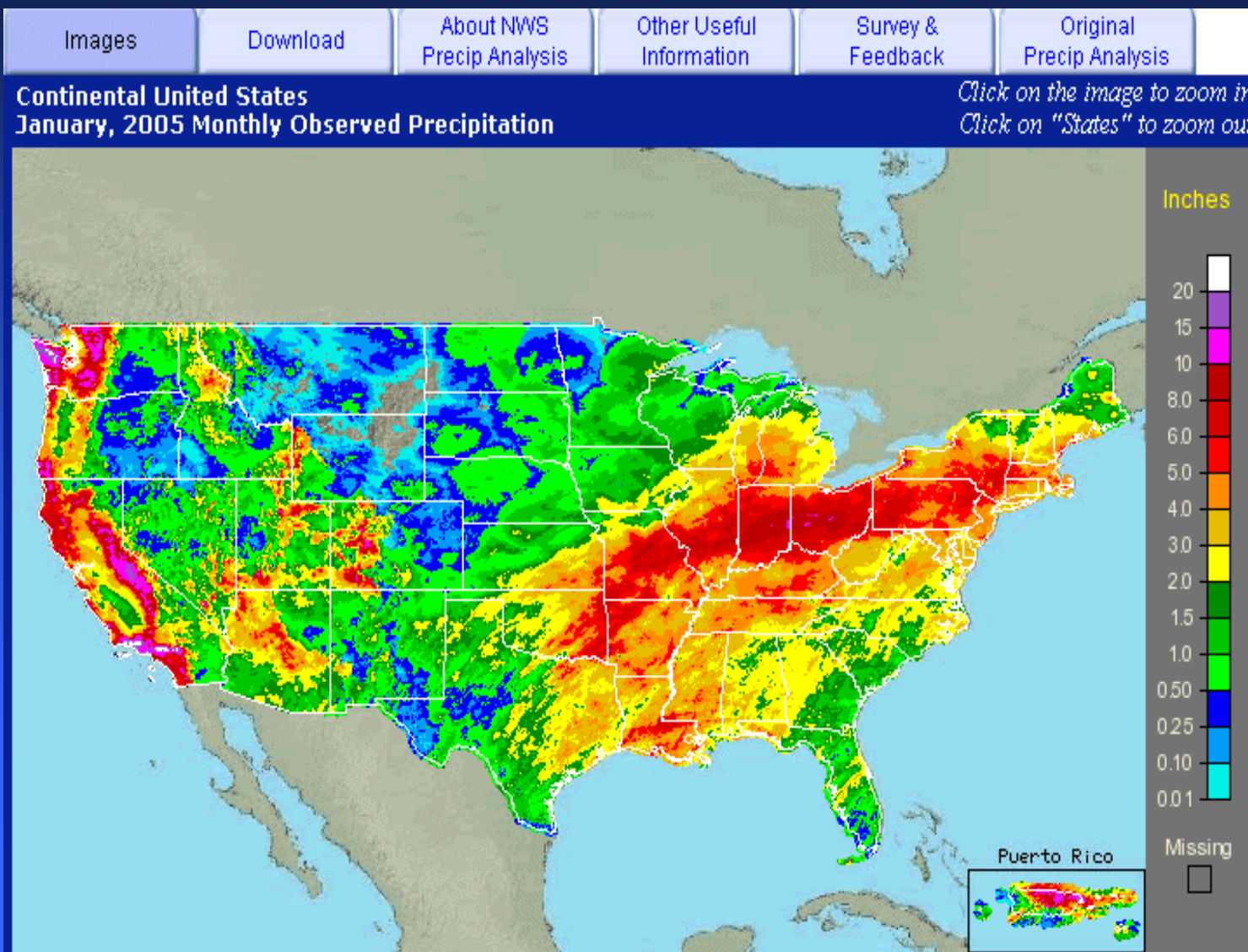
[La Nina](#) [Past Seasonal Forecasts](#)



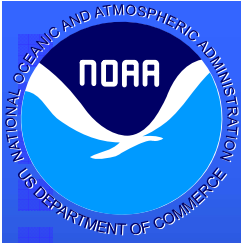
# NWS Southern Region Develops/Hosts National Precipitation Analysis Tool



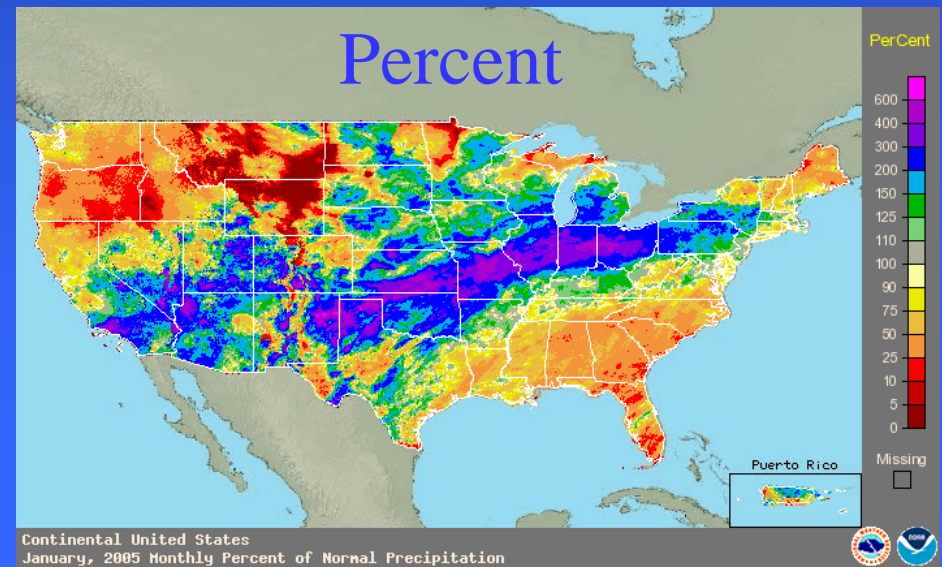
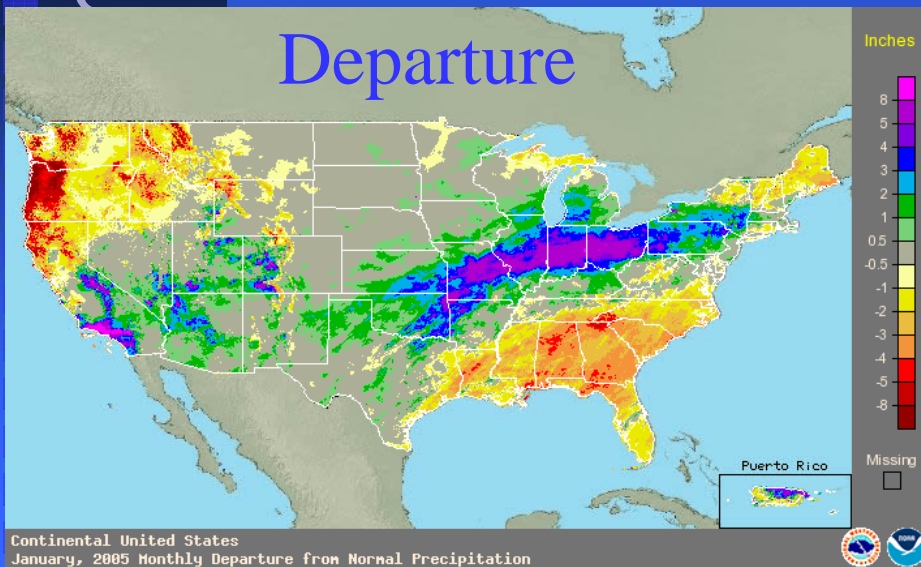
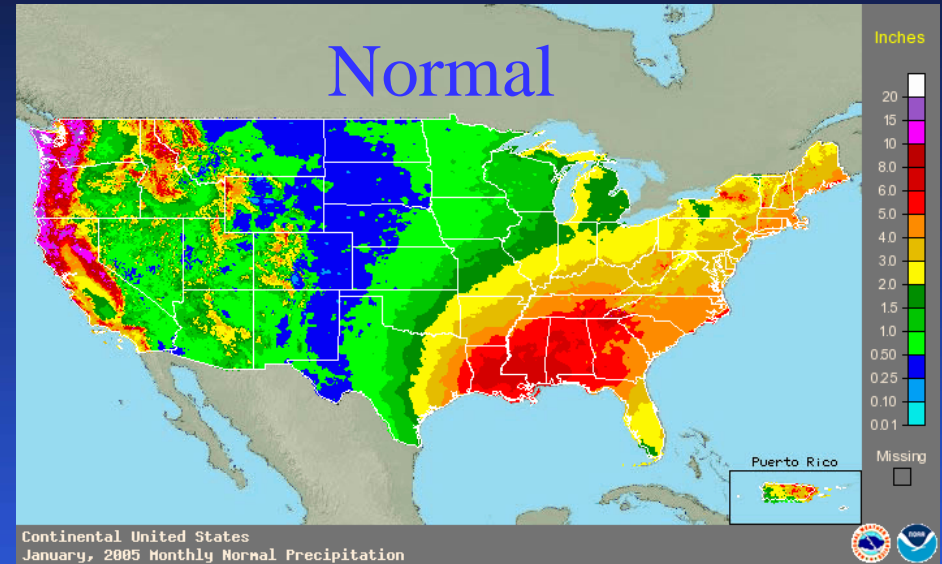
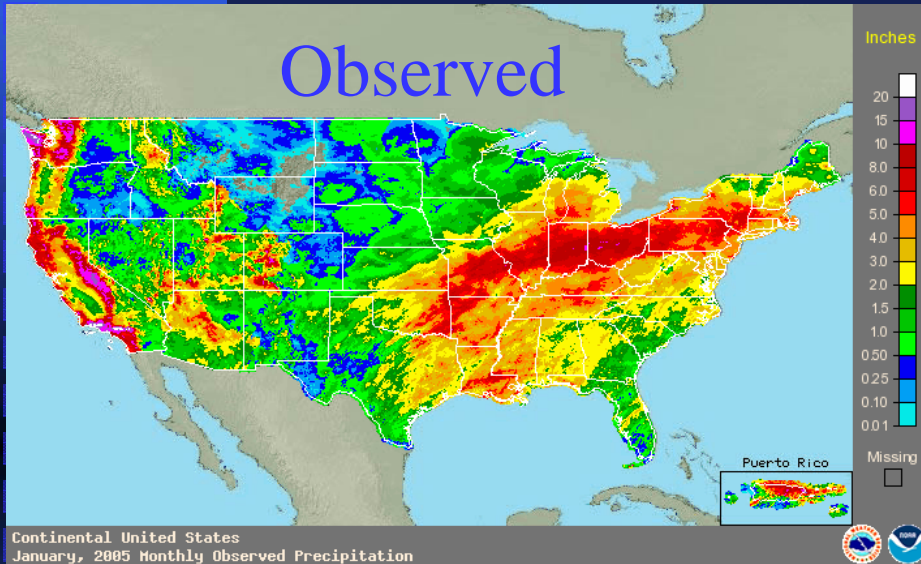
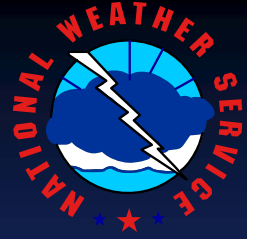
NWS Southern Region

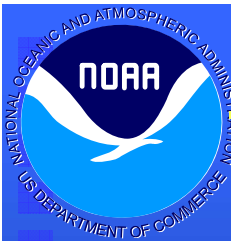




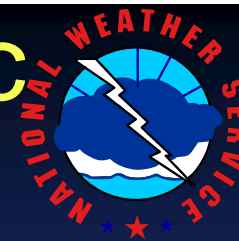


# NWS National Climate Graphic Precipitation Analysis Tool



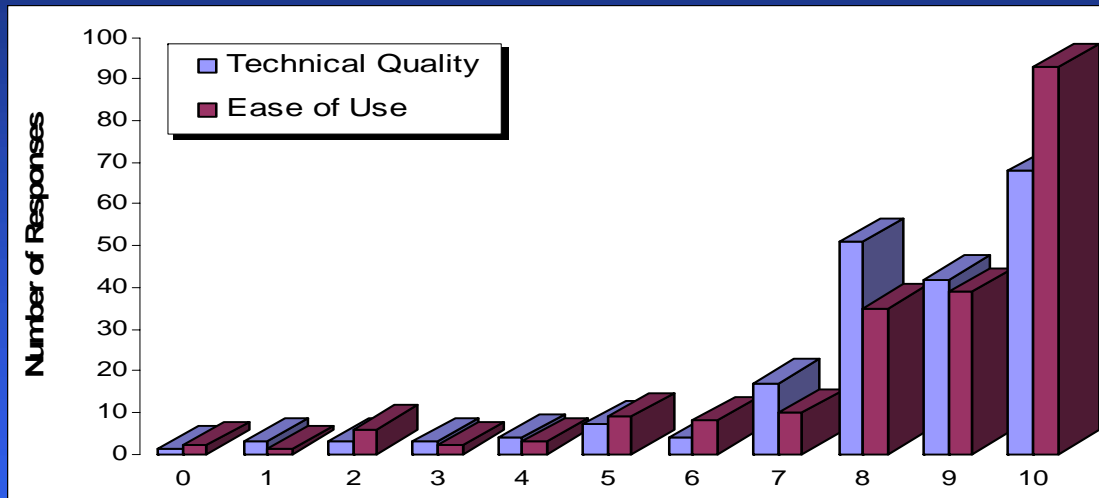


# NWS National Climate Graphic Precipitation Analysis Tool



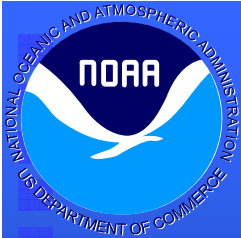
NWS Southern Region

## Feedback for Precipitation Analysis Tool (376 Survey Responses as of 6/16/2006)

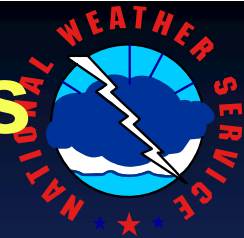


“I farm for a living, and I expect it to play a large part in planning and explaining weather affecting the operation of the farm.” (New Ulm, MN)

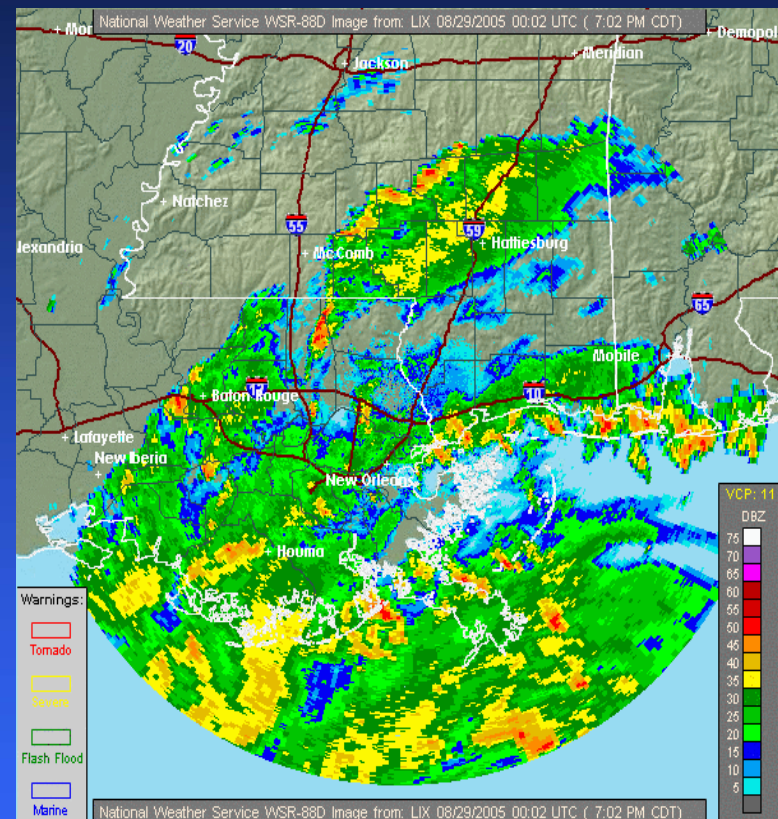
“I will use this information to help make decisions in the flood warning and emergency response activities of a large county government.”  
(Seattle, WA)



# New NWS GIS Radar Webpages

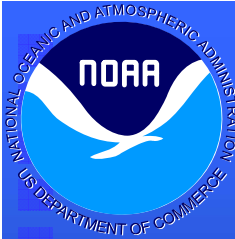


- GIS Radar images and warning polygons are displayed, time looped and can be downloaded to your GIS software
- Calculates distance from any storm point, "Lat" & "Long" and direction
- For the first time, has **velocity** data!
- *A Southern Region initiative, now National as of Feb 21, 2006*



[www.srh.weather.gov/ridge](http://www.srh.weather.gov/ridge)





# NWS Radar network: 122 WFOs

- ◆ Critical to NWS mission

- ◆ Used by EM's, Mets, local govts, media and public
- ◆ Used by NWS for all warnings and forecasts

- ◆ NWS Radars are very popular

- ◆ Radar site accounts for ~40% of all NWS hits on active weather days
- ◆ During land-falling hurricanes, WFO coastal radar accounts for 50% of our internet data hits (we had nearly 1.5 BILLION hits during Katrina and Rita)

- ◆ Positive Feedback

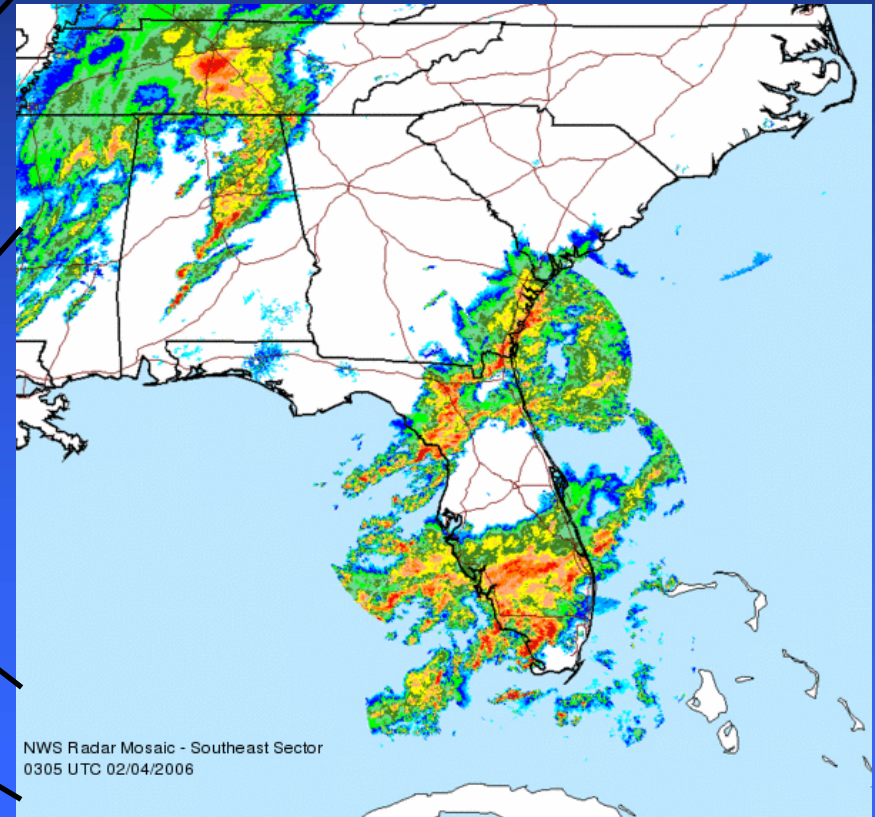
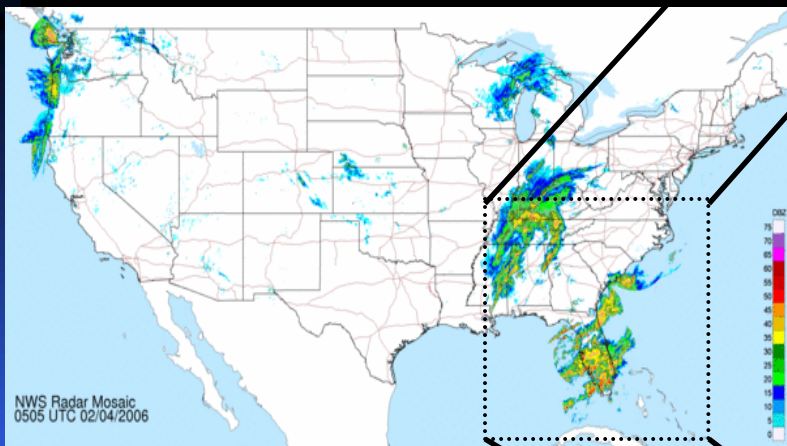
- ◆ Southern Region developed and operationally tested the new GIS "RIDGE" radar display & we were overwhelmed by the tens of thousands of comments. Expanded nationally by all NWS regions.



# With GIS Radar: Improved National and Regional Mosaics

<http://www.srh.noaa.gov/ridge>

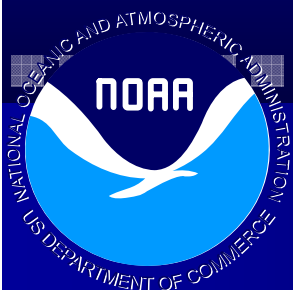
NWS Southern Region



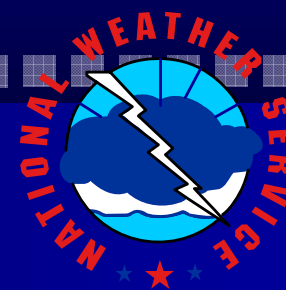
# The Future of YOUR NWS

Improvements must be built on the NWS modernization success and its emphasis on local partnerships (EM, Climate & Met community and media) and services—

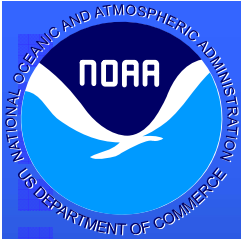
*...Mesoscale (local scale) climate information and digital weather forecasts, local “mesonets”, a modernized CO-OP program, finer radar resolution with faster volume scans....all assimilating into finer scale local modeling, “tactical met” support to EM and first responders... to save lives and support better informed decisions.*



NWS SOUTHERN REGION  
[www.srh.weather.gov](http://www.srh.weather.gov)

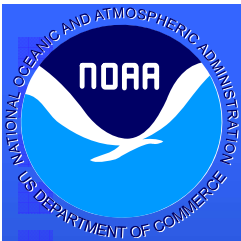






**The NWS Modernization was based on  
Mesoscale Mission Delivery.  
Therefore, the resulting performance  
of the National Weather Service  
Field Regions & Forecast Offices  
epitomize and reinforce the concept:**

**...government closest to the people,  
serves best!**



NWS Southern Region

# Discussions & Questions?

**Bill Proenza, Regional Director**

National Weather Service - Southern Region

Fort Worth, Texas

**Find this presentation at:**

**[www.srh.noaa.gov](http://www.srh.noaa.gov)**

Click on: "Welcome from the Director"

Click on: "2006 AASC Conference."